

Title (en)
FOOD AND DRINK CONVEYING DEVICE

Title (de)
FÖRDERVORRICHTUNG FÜR SPEISEN UND GETRÄNKE

Title (fr)
DISPOSITIF DE TRANSPORT D'ALIMENTS ET DE BOISSON

Publication
EP 2460446 A4 20160302 (EN)

Application
EP 10804320 A 20100722

Priority
• JP 2009179436 A 20090731
• JP 2010062368 W 20100722

Abstract (en)
[origin: EP2460446A1] An object of the invention is to provide a food and drink conveying device that can allow a travel body to travel stably over a travel path. A food and drink conveying device (1) can allow a travel body (7) to travel over a travel path (1a) using a magnetic force between a first magnetic body (18) and a second magnetic body (19) by driving a conveyor driving body (15) and is provided with a lift preventing means (34) in close proximity to the second magnetic body (19), where the lift preventing means (34) makes contact with the travel path (1a) so as to prevent the second magnetic body (19) from lifting due to the magnetic force between the first magnetic body and the second magnetic body (19) and moves together with the conveyor driving body (15).

IPC 8 full level
A47G 23/08 (2006.01); **A47F 10/06** (2006.01); **B65G 17/12** (2006.01); **B65G 17/22** (2006.01); **B65G 23/14** (2006.01); **B65G 23/18** (2006.01); **B65G 35/06** (2006.01); **B65G 54/02** (2006.01)

CPC (source: EP KR US)
A47F 10/06 (2013.01 - EP KR US); **A47G 23/08** (2013.01 - KR); **B65G 17/12** (2013.01 - EP US); **B65G 17/22** (2013.01 - KR); **B65G 23/14** (2013.01 - EP US); **B65G 23/18** (2013.01 - EP US); **B65G 35/06** (2013.01 - EP US); **B65G 54/025** (2013.01 - EP US)

Citation (search report)
• [X] JP 2006044829 A 20060216 - SUMITOMO METAL IND, et al
• [X] JP S5693087 A 19810728 - TOKYO SHIBAURA ELECTRIC CO
• [X] JP S5695760 A 19810803 - TOKYO SHIBAURA ELECTRIC CO
• [X] US 6267058 B1 20010731 - SCHLIENGER MAX P [US]
• [X] US 6360670 B1 20020326 - SCHLIENGER MAX P [US]
• [X] JP S60107451 A 19850612 - TOSHIBA KK
• [A] JP 2001054459 A 20010227 - MIYASAKA KAGU KOGEI KK
• [A] US 2844243 A 19580722 - CHRISTIANSEN MILTON J, et al
• [A] US 2193076 A 19400312 - PREBLE NORMAN H
• [A] DE 1235801 B 19670302 - WAGGONFABRIK J RATHGEBER A G
• [A] JP S62176121 U 19871109
• [A] JP S5649118 A 19810502 - TOYO GIKEN KOGYO KK
• See references of WO 2011013574A1

Cited by
EP3028965A1; US9446902B2; US10737403B2; WO2015162182A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2460446 A1 20120606; EP 2460446 A4 20160302; CN 102573575 A 20120711; CN 102573575 B 20140604; JP 2011030741 A 20110217; JP 5033847 B2 20120926; KR 101603929 B1 20160316; KR 20120039716 A 20120425; US 2012186948 A1 20120726; US 8616366 B2 20131231; WO 2011013574 A1 20110203

DOCDB simple family (application)
EP 10804320 A 20100722; CN 201080043912 A 20100722; JP 2009179436 A 20090731; JP 2010062368 W 20100722; KR 20127003957 A 20100722; US 201013387801 A 20100722